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ABSTRACT OF THE DISCLOSURE

The apparatus forms an electric circuit construction member of a machine based on a set of threedimensional data. The data defines a position and profile of the construction member, a position of electric circuit, and a shape of the electric circuit. The electric circuit is for electrical connection used electric instruments mounted on the machine. data is associated with a reference coordinate system provided in the machine, and the data includes coordinates points for determining arrangement of the electric circuit, a distance between any two of the points adjacent to each other, and a cross-sectional area of the electric circuit associated extended between the two points. apparatus has a storage means for storing the data, a jet means for jetting a molten metal, a first transfer means for moving the construction member relative to the jet means, and a control means for jetting the molten metal against the construction member to deposit the molten metal and for controlling the relative movement between the construction member and the jet means based on the data. The jet means can jet the molten metal against the construction member so that the molten metal can be deposited on a surface of the construction member to form the electric circuit on the construction member.